ISSN 0309-1287

Protozoological Abstracts

1987 VOLUME 11 ANNUAL INDEXES

PUBLISHED BY C·A·B INTERNATIONAL

C·A·B INTERNATIONAL
Wallingford, Oxon, OX10 8DE. UK
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Protozoological Abstracts

is a monthly journal prepared by the
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OF ANIMAL HEALTH
in association with the
C·A·B INTERNATIONAL INSTITUTE OF PARASITOLOGY

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Volume 11

Prepared by

C·A·B INTERNATIONAL
INSTITUTE OF PARASITOLOGY
ST. ALBANS HERTS

1987

ISSN 0309-1287

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CABI's organizational structure comprises the Review Conference of member governments, which meets every five years; the Executive Council, with one representative from each member government, which meets four times per year; and the Directorate, including CABI Headquarters, its 4 Institutes and 11 Bureaux. The Director General is the chief executive, controlling the 410 staff, two thirds of whom are at managerial or professional level, through three Directors, for Information, Scientific and Administrative Services.

The organization exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

INFORMATION SERVICES

The chief function of the Information Services is to provide ready access to published information on research in agriculture and allied disciplines, including rural development.

Over 100 scientists/linguists in CABI's eleven Bureaux, each one specialising in a particular subject area, scan the world literature, select the significant items, and prepare an informative abstract of each which is entered into the CAB ABSTRACTS bibliographic database. With some 2 million records in the database since 1973, and 3 million more in printed journals back to 1930, the total archive provides a unique encyclopaedic resource of unsurpassed reliability and quality.

The CAB ABSTRACTS database is publicly accessible online from major international online vendors. It is used to provide current awareness and retrospective information services in hard copy and machine-readable form. Chief among these are 46 printed abstract journals, which are taken by 10,000 subscribing organizations worldwide. New journals are started in response to changing users' needs or if sponsors guarantee the circulation. Users needing more specific information may select outputs that match their particular requirements, helped if necessary by CABI's subject experts; outputs are supplied as magnetic tape, computer printout, microfiche or floppy disk. The database is also available for testing on optical disk (CD-ROM), a new technology ideally suited to developing countries. To complete the service, photocopies of original articles are provided on request through the CABI Library Services.

Other functions of the Information Services include compilation of specialized databanks and directories, publication of primary journals, authoritative reviews and books, and training in information transfer for librarians, documentalists and information specialists.

SCIENTIFIC SERVICES

The Scientific Services of CABI are conducted by four Institutes, which provide an international service on pest identification and management. They deal with insect pests, fungal and bacterial agents, and human, animal and plant parasites and with all aspects and types of biological control of plant pests.

CAB International Institute of Entomology (CIE)

CIE provides an identification service for insects, mites and other arthropods, especially species that are of actual or potential importance as pests, parasitoids, predators and pollinators or are otherwise relevant to agriculture, forestry or related subjects. Contract research is also undertaken in these fields. The Institute's taxonomists work in the British Museum (Natural History) where they have access to the Museum's 23 million reference specimens of insects and mites, an incomparable aid to authoritative identifications and research on arthropod classification.

CAB International Mycological Institute (CMI)

CMI is the largest centre for systematic mycology in the world and provides a service for the identification of filamentous fungi and plant-pathogenic bacteria. It has about 300,000 dried reference specimens, a culture collection of more than 12,500 isolates, and extensive library, a Biodeterioration and Industrial Services Laboratory, a Biochemical Laboratory, and a Plant Pathology Liaison Unit. The Institute provides a wide range of consultancy and contract services for plant pathologists and industry. It incorporates the UK National Collection of Fungus Cultures and the Biodeterioration Centre.

CAB International Institute of Parasitology (CIP)

CIP provides an identification service for plant-parasitic and entomophilic nematodes, and helminth parasites of animals and man. The reference collections contain over 65,000 specimens, and an extensive specialist library is maintained. The Tropical Plant Nematology Advisory and Research Unit provides practical advice on plant-parasitic nematodes and their control worldwide, and the Institute also houses the WHO Filarial Reference Collection.

CAB International Institute of Biological Control (CIBC)

CIBC provides information and advice on biological control, undertakes research and implementation of programmes on biological control of major pests and weeds, and participates in integrated pest management programmes in association with other agencies. It has its headquarters in the UK but operates also from stations at Delémont, Switzerland; Rawalpindi, Pakistan; Nairobi, Kenya; and Curepe, Trinidad, West Indies.

All four Institutes carry out research, and offer a wide range of training activities from postgraduate studentships to special training courses both in the UK and abroad.

DEVELOPMENT SERVICES

The Development Services Group was established in 1986 to provide a sharper focus for CABI's consulting activities. It draws heavily on the unique scientific expertise and information resources available in the CABI Institutes and Bureaux, and its activities are backed by nearly sixty years of CABI involvement in science and world agriculture.

The Development Services offer practical advice and assistance on many pest-related or environmental problems in agriculture. Specific services include:

— project appraisal
— advice in a range of scientific disciplines
— research supervision
— research evaluation
— project implementation.

These services are offered in situations ranging from short-term individual consultancies to project components and major development projects. The current focus is on:

— integrated pest management programmes
— national crop protection services
— pest/disease identification and control
— crop-orientated pest and disease surveys.

One component of these activities that can be extended to any branch of agriculture or development is the provision of a comprehensive information service, involving expert review and analysis of all relevant literature.

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The Onchocerciasis Research Unit funded by the World Health Organisation (WHO) works on the *in vitro* culture and drug responses of the filarial parasite *Onchocerca* as part of a major programme to develop new drugs for the safe and effective treatment of human onchocerciasis.
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Tropical Plant Nematology Advisory and Research Unit
This unit gives practical advice on plant-parasitic nematode problems and their control, and undertakes research contracts both overseas and at the Institute.
J. Bridge PhD
S. L. J. Page PhD
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Collections
CIP houses extensive reference collections of both animal helminths and plant-parasitic nematodes, the collections of several eminent helminthologists, and is the WHO Collaborating Centre for the Filarioidea. It is also a recognised repository for type specimens.

Books
Latest titles:
Siddiqi, M. R. 1986 Tylenchida: Parasites of Plants and Insects 645 pp. 166 illus. ISBN 0 85198 554 8
Gibbons, L. M. 1986 SEM Guide to Morphology of Nematode Parasites of Vertebrates 200 pp. 443 illus. ISBN 0 85198 569 6
Jepson S. B. 1987 Identification of Root-Knot Nematodes (*Meloidogyne* species) x + 265 pp. inc. illus. & figs. ISBN 0 85198 556 4

Training Courses
Six-week intensive international training courses on animal helminth parasites and plant-parasitic nematodes are held in alternate years.
NEXT COURSE: Identification of helminth parasites of economic importance 4th July-12th August 1988.

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B. Pedersen BA
S. Edwards BA

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Volume 11, 1987

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The Bureau of Animal Health

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As part of the centralisation of the Information Services of C·A·B International (CABI) at Wallingford, Oxfordshire, the Bureau of Animal Health has been enlarged to include the staff of the Institutes of Entomology, Mycology and Parasitology who write abstracts for publication in the *Review of Applied Entomology, Series B, Medical and Veterinary,* the *Review of Medical and Veterinary Mycology, Helminthological Abstracts, Series A, Animal and Human Helminthology* and *Protozoological Abstracts.* These four journals are now the responsibility of the new Managing Editor of the Bureau of Animal Health, G. D. Phillips BSc, BVSc, PhD, MRCVS, formerly Professor of Animal Science, University of Manitoba, Canada. The Bureau will continue its responsibility for production of the *Veterinary Bulletin, Index Veterinarius, Small Animal Abstracts* and *Animal Disease Occurrence.* Strong links are to be retained with the C·A·B International Institutes of Entomology and Parasitology, and the Mycological Institute, which are remaining at their present locations.

As part of C·A·B International's Information Services, the Bureau of Animal Health works alongside 10 other Bureaux to scan and abstract the relevant scientific/technical literature over the whole field of agriculture and related subjects, and all 11 contribute to the CAB ABSTRACTS bibliographic database from which all CABI's printed journals are derived.

Editorial Advisory Boards of scientists notable in their fields are being formed for the Bureau's journals. These Boards will advise on scientific scope and content, and play an active part in maintaining editorial and scientific standards.

All matters concerned with the scope and content of the above journals should be addressed to Dr. Phillips at C·A·B International, Bureau of Animal Health, Wallingford, Oxon OX10 8DE, UK.

John Metcalfe.

John R. Metcalfe, MA, PhD, DIC, DTA
Director, Information Services
C·A·B International

December 1987

READERS GUIDE

The purposes of the citations and abstracts are to enable readers to: identify documents containing information of relevance and importance to their interests; keep themselves informed of the progress of current work; decide whether or not they need to see original documents. Abstracts may also act as substitutes for documents not available to readers or in language they cannot understand. Photocopies of most items abstracted are available through C·A·B International's Document Delivery Service. (see request form in this journal. The titles and abstracts in this journal have been added to the CAB ABSTRACTS database which is available for current and retrospective online searches.

In a typical entry the name(s) of the author(s) is followed by the title of the paper in English. If the original paper is not written in English then a translation of the title is enclosed in square brackets and the title of the original language follows (except for Arabic, Chinese, Japanese, etc). Cyrillic characters are transliterated for book titles but not for titles of papers. The unabbreviated journal title is given next (transliterated or romanised if necessary). The year of issue in round brackets, volume number, part number in round brackets, and first and last page numbers of the article complete the basic citation.

Supplementary information, given in square brackets, includes the language of the paper (see abbreviations) and language(s) of additional summary(ies) and the number of references cited in the paper.

The address cited for an abstract normally refers to the first author and is usually the place where the work was carried out.

Authors summaries are used for the abstracts if suitable. Special efforts are made to provide informative abstracts of papers in less commonly used languages and in publications which cannot easily be obtained. In consulting an entry the reader should remember that the title of the paper is an integral part of the abstract and may include information necessary for its full comprehension. Names or phrases in square brackets within a title or abstract have been added during abstracting and do not appear in the original document.

ABBREVIATIONS FOR LANGUAGES

An initial capital letter denotes the language of the paper, an initial small letter the language of a summary.

Afrikaans	Af	Finnish	Fi	Malay, Bahasa Malaysia	My
Albanian	Al	French	Fr	Dutch, Flemish	Nl
Arabic	Ar	Greek	Gr	Norwegian	No
Azerbaijani	Az	Hebrew	He	Persian	Pe
Byelorussian	Be	Hungarian	Hu	Polish	Pl
Bulgarian	Bg	Interlingua	Ia	Portuguese	Pt
Chinese	Ch	Indonesian	In	Romanian	Ro
Czech	Cs	Icelandic	Is	Russian	Ru
Danish	Da	Italian	It	Serbo Croat	Sh
German	De	Japanese	Ja	Slovak	Sk
Estonian	Ee	Korean	Ko	Slovene	Sn
English	En	Latin	La	Swedish	Sv
Esperanto	Eo	Lithuanian	Li	Tajik	Ta
Spanish	Es	Latvian	Lv	Turkish	Tr
		Macedonian	Ma	Ukranian	Uk

PROTOZOOLOGICAL ABSTRACTS

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AUTHOR INDEX

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries and there are no cross-references to show joint authorship. Thus a paper by "Brown, B.; Jones, A.; Smith, J." would have three separate entries: "Brown, B", "Jones, A.", and "Smith, J.". There is no distinction between subsidiary and senior authors. Apparent inconsistencies may appear in the spelling of authors' names; this is because variations in spelling occur in primary journals. Authors' names in this index are spelt as they appeared in the original paper. If we have knowledge of their identity, alternative versions may also be given.

PROTOZOOLOGICAL ABSTRACTS

VOLUME 11

SUBJECT INDEX

Beginning with Volume 7 the structure of the subject index of this journal changed slightly. This was partly due to the development of the *CAB Thesaurus* and partly to the need to conform to a standard index structure common to all CAB International journals. Most leading terms therefore conform to the preferred terms as listed in the *CAB Thesaurus* [copies are obtainable from CAB International (Central Sales), Farnham House, Farnham Royal, Slough, SL2 3BN, UK].

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries. The leading key word unit in an entry appears in **bold type**. Aggregation of entries sharing identical keyword units is indicated by indentation. Basically there are four levels of indentation – parasite, host, country, subject aspect.

Hosts are indexed under their specific names, where given, except domesticated animals (e.g. cats, pigs, sheep) and where numerous hosts of the same group are listed in the one paper (e.g. Amphibia, birds). The use of alternative scientific names for host or parasite is avoided wherever possible but in cases in which nomenclatorial or taxonomic confusion still exists the same organism may appear under more than one name.

In an index of this kind it is not possible to assume that any chosen entry will necessarily give complete coverage of the subject in question. After consulting the chosen entry it may be necessary to consult index entries for related larger or smaller groupings or for alternative names.

Thus, when the subject matter concerns organisms, whether host or parasite, entries concerned with related group, generic or popular names should be consulted, e.g.

> Rodents, see also Animals, Mammals, Muridae, *Rattus*, Vertebrates, etc.
> *Eimeria*, see also Coccidia

A similar procedure is necessary with geographical entries, e.g.

> East Africa, see also Africa, Kenya, Tanzania, Uganda

New records are identified by "new host record" for the first record of the named parasite in the named host and by "new geographic record" for the first record of the named parasite in the named country or region.

Antiprotozoal drugs are indexed by their common name (where known), their trade name, protocode number, or by their chemical name. Wherever possible proprietary drugs are cross-referenced to the appropriate common name. No classification of the drugs is attempted.

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CABI appreciates that many of its information users are equipped with microcomputers. The SDI service has been extended to diskettes for the convenience of CABI customers. Diskettes, containing current input to the CABI production database, are issued weekly, monthly or quarterly.

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CABI has produced a CD-ROM prototype which has been on trial at over 40 key sites in 26 countries. User assessments, due June 1987, will be used to formulate CABI's future CD-ROM strategy. For further information please write to CABI's Marketing & Sales Division.

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Printed by Unwin Brothers Ltd., The Gresham Press, Old Woking, Surrey, U.K.

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